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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/936,157	09/06/2001	Osamu Shibata	NAKI-BP89	9192
21611	7590 12/09/2004		EXAM	INER
SNELL & WILMER LLP			MOORTHY, ARAVIND K	
1920 MAIN STREET SUITE 1200			ART UNIT	PAPER NUMBER
IRVINE, CA	IRVINE, CA 92614-7230			
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Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. Op/930, 157 Examiner Art Unit Art Unit 1213 — The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of them may be evaluable under the previous at 31°CPR 1.136(b), in no overst, however, may a raphy be limitly filed If the period for rely specified action, the maximum statistory period will apply and will replie 50 K (5) MCV/TRS from the mailing date of this communication. If the period for rely specified action, the maximum statistory period will apply and will replie 50 K (5) MCV/TRS from the mailing date of this communication. If the period for rely specified action, the maximum statistory period will apply and will replie 50 K (5) MCV/TRS from the mailing date of this communication. If the period for rely specified action that the more face and the mailing date of this communication, and the period of the communication. Applying the control of the period of the communication, and if the period of the communication, and the period of the communication, and if the communication, and if the communication and period of the communication, and if the communication and the period of the communication, and if the communication and the period of the communication, and if the communication and the period of the communication and the period of the communication, and if the communication and the period of the period of the communication and the period of the period of the communication and the period of the period of							
Examiner		Application No.	Applicant(s)				
Aravind K Moorthy		09/936,157	SHIBATA ET AL.				
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1. Claims 1-12 and 17-31 are pending in the application.

2. Claims 13-16 have been cancelled.

3. Claims 1-12 and 17-31 are rejected.

Specification

4. The title of the invention is not descriptive. A new title is required that is clearly indicative of

the invention to which the claims are directed.

Response to Arguments

5. Applicant's arguments with respect to claims 1-12 and 17-20 have been considered but are

moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who

has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention

thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999

(AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002

do not apply when the reference is a U.S. patent resulting directly or indirectly from an

international application filed before November 29, 2000. Therefore, the prior art date of the

reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA

35 U.S.C. 102(e)).

6. Claims 1-3, 8-12, and 17-23 are rejected under 35 U.S.C. 102(e) as being anticipated by Harada et al U.S. Patent No. 6,687,683 B1.

The applied reference has a common assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

As to claims 1, 11, 12, 17, 19 and 21, 22, 23, Harada et al discloses an authentication communication system which includes (a) a storage medium having an area for storing digital information and (b) an access device for reading/writing digital information from/into the area, the authentication communication system comprising:

a first authentication phase in which the access device transmits to the storage medium scrambled access information generated by scrambling access information which shows the area [column 11, lines 10-17], and authenticates whether the storage medium is authorized according to a challenge-response authentication protocol using the scrambled access information [column 12, lines 32-60];

a second authentication phase in which the storage medium authenticates whether the access device is authorized [column 12, lines 32-60]; and

a transfer phase in which, when the storage medium and the access device have authenticated each other as authorized devices, the storage medium extracts the access information from the scrambled access information that was used in the authentication protocol, and the access device reads/writes digital information from/into the area shown by the access information [column 12 line 61 to column 13 line 12].

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As to claims 2 and 18, Harada et al discloses an access information acquisition unit for acquiring the access information that shows the area [column 11, lines 10-17]. Harada et al discloses a random number acquisition unit for acquiring a random number [column 12, lines 32-60]. Harada et al discloses a generation unit for generating random number access information by combining the access information and the random number [column 12, lines 32-60]. Harada et al discloses an encryption unit for encrypting the random number access information according to an encryption algorithm, to generate the scrambled access information, the storage medium includes a response value generation unit for generating a response value from the scrambled access information, and the access device includes an authentication unit for authenticating whether the storage medium is authorized using the response value [column 12, lines 32-60].

As to claims 3 and 20, Harada et al discloses a decryption unit for decrypting the scrambled access information according to a decryption algorithm to obtain the random number access information. Harada et al discloses a separation unit for separating the access information from the random number access information [column 20, lines 5-41].

As to claim 8, Harada et al discloses that in the transfer phase, the storage medium, which stores digital information in the area, includes an encryption unit for reading the digital information from the area shown by the access information and encrypting the digital

information according to an encryption algorithm to generate encrypted digital information [column 19, lines 11-51], and the access device, which reads the digital information from the area, includes a decryption unit for decrypting the encrypted digital information according to a decryption algorithm to obtain the digital information, the decryption algorithm being an algorithm for decrypting a cryptogram generated according to the encryption algorithm [column 22 line 55 to column 23 line 14].

As to claim 9, Harada et al discloses a digital information acquisition unit for acquiring the digital information. Harada et al discloses an encryption unit for encrypting the digital information according to an encryption algorithm to generate encrypted digital information [column 21, lines 56-61]. Harada et al discloses that the storage medium includes a decryption unit for decrypting the encrypted digital information according to a decryption algorithm to obtain the digital information [column 22 line 55 to column 23 line 14]. Harada et al discloses writing the digital information into the area shown by the access information. Harada et al discloses the decryption algorithm being an algorithm for decrypting a cryptogram generated according to the encryption algorithm [column 22 line 55 to column 23 line 14].

As to claim 10, Harada et al discloses a digital information acquisition unit for acquiring the digital information, as discussed above. Harada et al discloses a content key acquisition unit for acquiring a content key [column 22, lines 41-48]. Harada et al discloses a first encryption unit for encrypting the acquired content key according to a first encryption algorithm to generate an encrypted content key [column 22, lines 41-48]. Harada et al discloses a second encryption unit for encrypting the encrypted content key according to a second encryption algorithm to generate a double- encrypted content key [column 22, lines 41-48]. Harada et al discloses and a third encryption unit for encrypting the digital information according to a second encryption algorithm using the content key, to generate encrypted digital information [column 25, lines 12-37]. Harada et al discloses that the storage medium includes a decryption unit for decrypting the double encrypted content key according to a first decryption algorithm to obtain the encrypted content key, and writing the encrypted content key into the area shown by the access information, and the storage medium further includes an area for storing the encrypted digital information [column 25, lines 12-37].

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 4-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Harada et al U.S. Patent No. 6,687,683 B1 as applied to claim 1 above, and further in view of Vobach U.S. Patent No. 5,193,115.

As to claim 4, Harada et al does not teach that in the first authentication phase, the access device further includes a random number seed storage unit for storing a random number seed, and the random number acquisition unit acquires the random number by reading the random number seed from the random number seed storage unit.

Vobach teaches a random number seed storage unit for storing a random number seed, and the random number acquisition unit acquires the random number by reading the random number seed from the random number seed storage unit [column 9, lines 21-39].

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Harada et al so that the random number are created with a random number seed that is stored in a storage unit. The random numbers would have been acquired from the storage unit.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Harada et al by the teaching of Vobach because the masking tape string only appears to an eavesdropper as a summand of the known ciphertext string, reconstructing it depends upon knowing the plaintext message string. Since, for a given encrypted message, there will be many equally probably possible plaintext message strings, there will be as many equally probable possible masking tape strings. In short, the plaintext message string "masks" the masking tape string [column 6 line 64 to column 7 line 8].

As to claim 5, the combination of Harada et al and Vobach teaches that in the first authentication phase, the access device further writes the scrambled access information over the random number seed stored in the random number seed storage unit, as a new random number seed [Vobach column 9, lines 40-63].

As to claim 6, the combination of Harada et al and Vobach teaches that in the first authentication phase, the access device further includes a random number seed storage unit for storing a random number seed, and the random number acquisition unit acquires the random number, by reading the random number seed from the random number seed storage unit and

generating the random number based on the random number seed [Vobach column 9, lines 21-63].

As to claim 7, the combination of Harada et al and Vobach teaches that in the first authentication phase, the access device further writes the random number over the random number seed stored in the random number seed storage unit as a new random number seed, as discussed above.

8. Claims 24-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Harada et al U.S. Patent No. 6,687,683 B1 as applied to claims 1, 11, 12, 17, 19 and 21-23 above, and further in view of Mann U.S. Patent No. 6,374,399 B1.

As to claims 24-31, Harada et al teaches that access information comprises address information.

Harada et al does not teach that access information comprises data size information.

Mann teaches access information that comprises data size information [column 11, lines 22-26].

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Harada et al so that the access information would have included address information as well as data size information.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Harada et al by the teaching of Mann because it lets the target device know how much space to a lot for the data during the write function [column 1, lines 51-67].

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Conclusion

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9. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Aravind K Moorthy whose telephone number is 571-272-3793.

The examiner can normally be reached on Monday-Friday, 8:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ayaz R Sheikh can be reached on 571-272-3795. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Aravind K Moorthy December 7, 2004 EMMANUEL L. MOISE PRIMARY EXAMINER